

HARMONIOUS DEVELOPMENT OF ALL THE COUNTRY'S REGIONS ALONG THE LONGEST BOULEVARD OF THE COUNTRY

A road of almost 70 km runs through the Jiu Valley, the most important coalfield of Romania, connecting almost all the towns and villages of Petroșani municipally, the largest in the country (an administrative territory of 996 sq. km): Lăneș, Petrică, Petroșani, Liveșeni, Vulcan, Petroșani, Lupeni, Urziceni, Cîmpulung Neag.

An old road: part of it follows the narrow country road that used to link the ancient pastoral settlements of the Valley, and the route along which, centuries ago, the primitive "coal trains" used to run — conveyors of hundreds of covered carts loaded with pitcoal. The construction of the highway started in

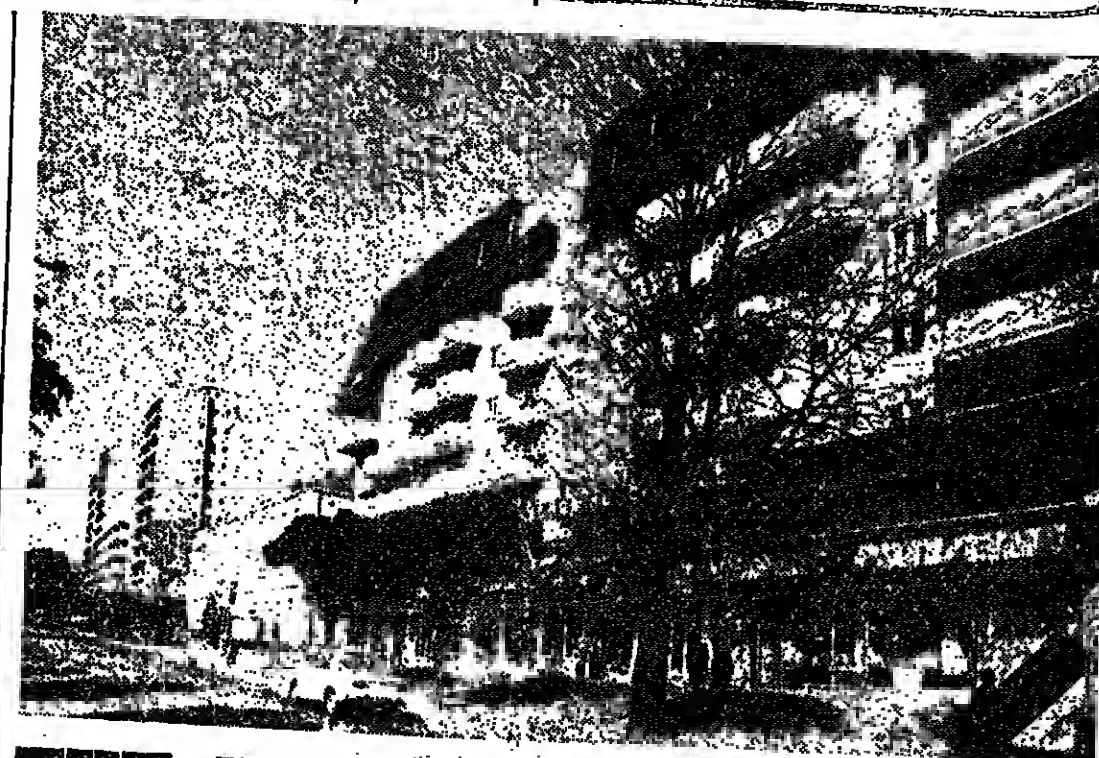
1970, at the same time with the railway, and it "grew" with the multiplication of coal operations. And still, it is a new road, like the face of the Jiu Valley today.

On both sides of this original boulevard, the longest in the country, new housing districts are lined (during the last 22 years over 28,000 apartments have been built), as well as shops, the seats of the old and new mining operations, modern coal dressing plants, a higher mining education institute, a mining equipment enterprise, a theatre, schools, sports halls, the new industrial areas of the towns.

PETROȘANI-NORD

For the design of the Petroșani-Nord district in the centre of the municipality, a few years ago, a national contest was initiated, in which over 600 architects all over the country participated. The most difficult thing was to turn to best advantage the small area and the characteristics of the environment. The laws have been developed and will develop in a small infrastructure basin, where every metro is valuable. The winning

design was combined with three other very good ones and with the suggestions of the architect at the County Design Institute. That explains the original and harmonious integration of the streets, squares and buildings into the mountainous landscape and space. The Petroșani-Nord district, which is almost ready now, is an architectural gem. In the open Victory Square, a marble octagonal well has been erected.



THE ROAD OF KNITWEAR

A long international transport truck was ready to leave the knitwear enterprise of Petroșani. A daily routine. But also a lot of professional maturity for the young collective of workers who have proved that they can be as good as those turning out famous fabrics, though the enterprise of Petroșani was only up ten years ago. In 1978 it was the first light industry unit in the Jiu Valley. The personnel was trained here, in parallel with the assembly and lapport of the equipment. The engineers had hardly graduated from the faculty. On October 1 the first fabrics were put out: a small collection of sweaters and blouses for children. The first orders, issued by the first customers, were for more than a couple of hundred (later a couple of thousands) items.

Now on order: more than a couple of thousands (later a couple of thousands) items. Because the knitwear enterprise of Petroșani is famous all over the world, its products are exported to France, Great Britain, Canada, Norway, Denmark, the USA, West Germany and the USSR.

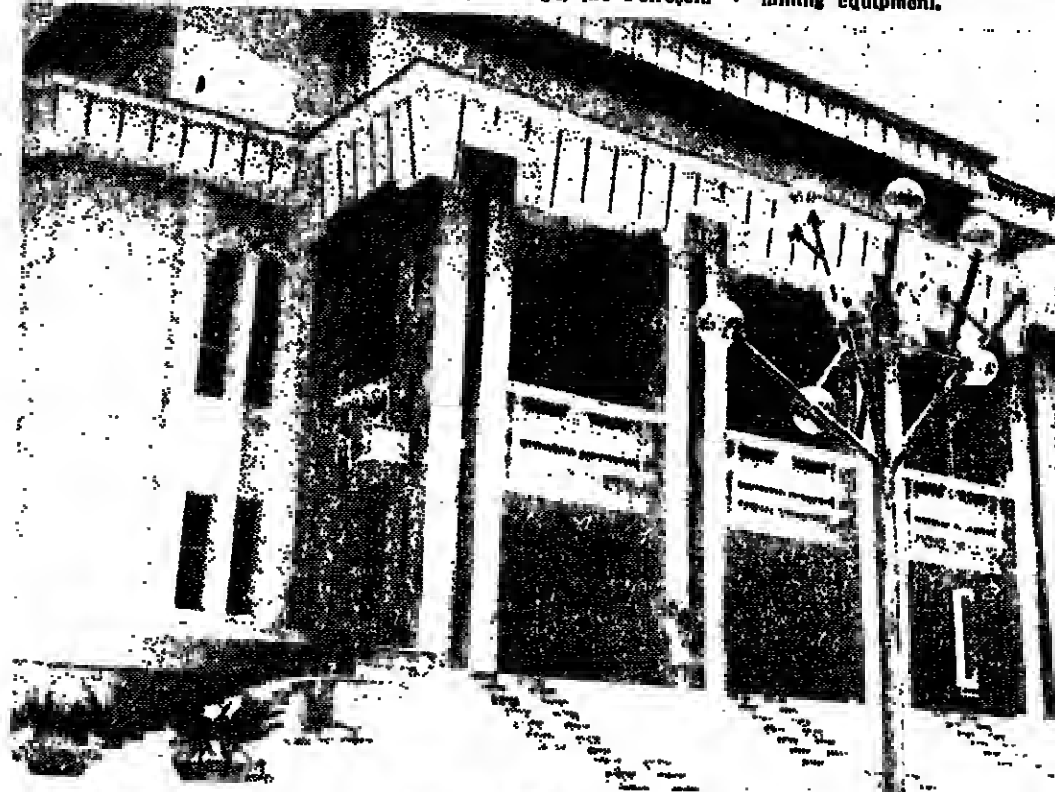
Accompanied by their English near Rodica Bădescu, a "veteran" of the enterprise, we followed the thread before reaching the stage of the finished fabric. First of all we entered the design department, run by technical engineer Doina Mălina. We noted the inventiveness, the precision, the eye for the detail. The effort to avoid complicated fashion is evident in the collection of the department work. Two years in advance, the knitwear items (amounting to 100 every year) are the result of the fashion of the future. Offered as samples when decisions are concluded, they enjoy a great success because they have personality and distinctive design, a texture and a variety of colours.

A NATIONAL FIRST

One of the most important recent achievements of the Mining Equipment Enterprise in Petroșani is a national first: the mechanized propping installation SMA 11 for the exploitation of layers with an average 45 degree dip. It was presented at the Bucharest International Fair last autumn and it has higher performance than other similar products in the world. Next to many other units produced by the Petroșani enterprise, it is a valuable offer to foreign partners. The competitiveness of its products lies in the permanent improvement of their technical tests. The whole list of installations and

subassemblies has been designed since 1964, having in view especially the increase of the safety conditions in the underground. Let us mention that two years ago, its current export production did not even appear in the export indicators of TUM Petroșani. Its only concern was to ensure the necessary equipment for the mines in the Valley — every new mechanized complex, combined cutter loader or conveyor means more coal, extracted more easily from the depth of the earth. Today, about a quarter of the products bearing the mark are meant for foreign customers. Ten years ago, the Petroșani

Mining Equipment Enterprise was only a large repair shop of the "head mechanic" of the Valley. In 1968 it celebrated 75 years since its foundation. During this time, the output increased five times in point of value and three times in point of tonnes. The enterprise produces 50-60 types of propping, digging, vertical and haulage conveyors, drilling installations, hydraulic and mining equipment, flameless proof equipment. This year, TUM Petroșani starts its third development and modernization stage. Which will ensure all conditions for the making of high-performance mining equipment.



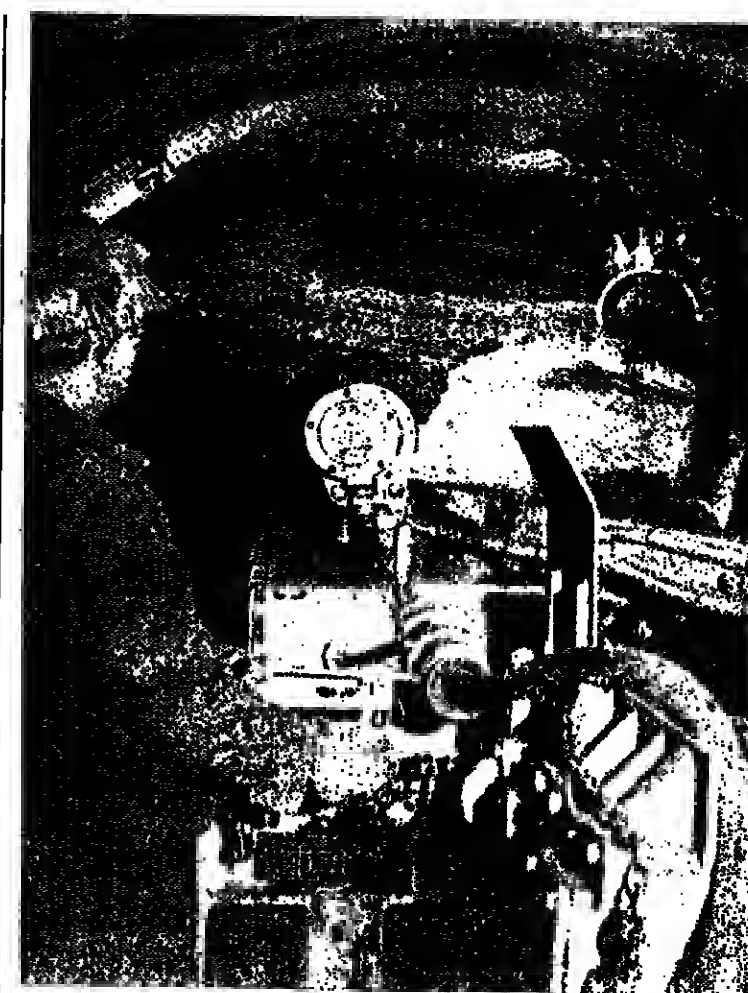
HIGHLY TRAINED WORKERS IN A STANDARD MINE

The mining enterprise of Petroșani is the best equipped of all units along the Jiu Valley. The whole production of the pit is put out by means of mechanized timbering and digging machine tools. Preparations are made by combination units. The supply of the working teams is performed by memorial-type installations. The whole coal conveying process is updated, equipped with conveyor belts. Key points are supervised by a closed circuit TV system. A modern, well-equipped switchboard controls the production process and the work safely. (Also here there is a fire alarm detector for the size, automatic recording of methane concentration existing in all the directly productive places.)

But the most important fact is that the enterprise has equipped miners with modern tools. A high professional training who are able not only to exploit efficiently highly productive tools but also to maintain and even replace them. They capitalize on the advantages offered by mechanization, in mechanized slopes the miners led by Nicolae Andreș, Mihail Bălașoiu and Ferenc Făstăș reached high productivities of up to 30 tons.

Last year, so important persons were registered here, highlighting the experience accumulated by the collective in exploiting copper, coal and mechanized cutting devices. Usually, a working is 60 to 100 m long, but here the wall is

100 m long. The new technology reduces a lot the volume of preparation and maintenance works. The number of transporters is reduced and big capacity transporters can be efficiently used. Full longwalls can be adapted to automation (operation can be followed through centralized control system). Only homogeneous teams with well trained men can work in such a system. A day last because of a failure or difficult geological situation means a loss of 1,000 tons of coal. To the experienced workers, of 100 m equipped with a CMA 511 complex, where Ferenc Făstăș, a veteran of mechanization at Petroșani and on the Jiu Valley, a specialized miner with



a rich experienced labour productivity has been increased by over 5 tons of coal, despite the difficult conditions and the varied inclinations of the layer. On layers 1 and 13 of Petroșani Mining Enterprise we will

need another procedure: full longwalls, where two combines are used. An average daily production of 1,300 tons of coal is expected. They will soon be followed by full longwalls of 200 m.

FIVE KILOMETRES DEEP

The derrick No. 3012 belonging in the Tîrgu Cîrănești Oil Field, Gărd county has reached a depth of five kilometres. Work has therefore been completed on the deepest well achieved in this oil field in Oltenia so far. Benefiting from a modern Romanian-made installation, the derrick here efficiently drilled the optimized drilling with 10 and higher quality drills, highly available in exploitation as part of the programme established in the projects of the respective derrick. The deepest well achieved in this oil field benefiting from a modern

A VILLAGE IS MOVING

Only several years ago, the Tîrgu Cîrănești oilfield was the focal point of the "road" while Cîmpulung Neag village was just a pastoral, picturesque settlement carrying out its life in a remote area. The village was moved into the earth inaugurating the Cîmpulung Neag quarry. The geologists discovered here a black coal mountain which must be taken out. Millions of tons of mining mass have been excavated until the present. Today's quarry is two km long, one km wide and 350 m deep. The exploitation is done in layers by rock excavation with explosives and loading with big capacity excavators. Other work points have also appeared: several kilometres around the quarries of Butea and Galben, Bălașoiu and Urziceni. Underground work was inaugurated in Butea. Access ways are also maintained in good condition, rail wagons are driven to the pit, to model and compact the huge small mountain exposed in the area.

and gather hay, cultivate potatoes, pick forest fruit.

Until one day in 1980 when an unusual noise came from the centre of the village: an excavator plunged its bucket into the earth inaugurating the Cîmpulung Neag quarry. The geologists discovered here a black coal mountain which must be taken out. Millions of tons of mining mass have been excavated until the present. Today's quarry is two km long, one km wide and 350 m deep. The exploitation is done in layers by rock excavation with explosives and loading with big capacity excavators. Other work points have also appeared: several kilometres around the quarries of Butea and Galben, Bălașoiu and Urziceni. Underground work was inaugurated in Butea. Access ways are also maintained in good condition, rail wagons are driven to the pit, to model and compact the huge small mountain exposed in the area.

Hundreds of lippings, boulders loaded with coal and split run on the solid concrete road leading to the quarries. From Urziceni leading point, the energy black coal extracted at Cîmpulung Neag (1,300-2,300 tonnes) leaves for Orștie, Dolciș, Adjud.

Because the exploitation will reach the inhabitants to use the village will move and the people will live in the beginning, two km from the place. In the Petroșani Valley, there is a new settlement with beautiful houses, a school and a kindergarten.

The new settlement in the valley moved to the quarries of Cîmpulung Neag, a new settlement with beautiful houses, a school and a kindergarten.



CREATION AS A FRAME OF MIND

The following dialogue, which took place at the Faculty of Machine Building Technology of the Bucharest Polytechnic Institute is a synthesis of the system of developing students' scientific creativity, to the opinion of the teaching staff here, in the first place.

"Do better your general knowledge, the easier your access to the particular," affirmed professor engineer Alexandru Rădulescu, DSc, dean of the faculty. We must develop flexible thinking; often one's mind with examples, permanent generalization would be a mistake."

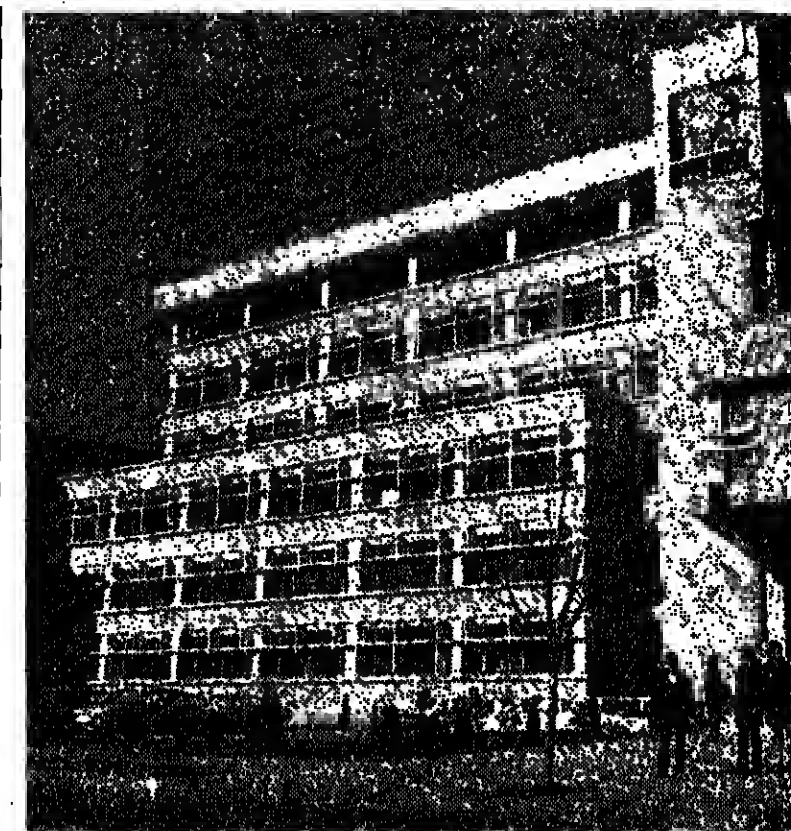
It, especially those of applied mathematics and physics. As for the strength of materials, we are told nothing about the vibrations of machine tools (Anoa Pescaru). "Education for innovation should begin in the first year, as to outcome of the very way in which we are required to approach certain problems" (a student who demanded to remain anonymous).

"Yes," the dean said — he pointed to the whiteboard and their meetings concerning the modernization elements which occur every year and which have to be learned by the students. We have in mind developing the future engineers' capacity for

investigation and creation, for analysis of certain problems, states and solutions. I keep telling the students: flexibility is the word in the economy, think of the technological lines, of the flexible machines that can work so many new parts, so different from one another, which have resulted in flexible technologies. Therefore, the engineer's tool must be flexible too. Our aim is to create models for problems and phenomena; the model then enables one to solve particular cases. The problems themselves are so complex that the engineer needs a multifaceted and diversified tool. The new model is created when the student lacks a thorough overall technical education.

RESEARCH THEMES

The most valuable latest research themes of the collection of teaching staff and students of the Faculty of Mining Machines and Installation of the Mining Institute in Potrosani, include the making of a laboratory model of a mining robot for exploring and supervising conveyor belts, the design and building of a winch mechanism driven by robots, the making of a manipulating robot which could work in the narrow spaces of the mine faces. A first important step has been made: the prototype of the first Romanian mining robot is working in a lab of the Faculty.



so, in the field of inventions, the designing and making of a set of devices for unconventional processing technologies by electro-erosion and electrochemical treatment have had very good results; this work was made by Cristian Dragomirescu and Marius Ceclu, 1986 graduates, and students Valentin Neagu, Laurențiu Romagosa and Luminița Apostolache and it was supervised by professor Inoel Gavrilag.

"An activity contributing to creating the creativity of the students is carried on within the scientific circles. For

example, at the Machine Building Technology department, professor engineer Constantin Ciocărdian, DSc, pointed out, "there is a scientific circle having three sections: a) technologies for spinning and plastic cold working; b) unconventional processes and technologies of processing and control (thermal equipment). The subjects of the circle are established by the department, taking into account its present or long-term research themes, starting from the idea that students will actually participate in the work of scientific creation."

A DILEMMA WHICH CAN BE SOLVED

"I am for mass-wide creativity. Education at all grades is the best place for that. It should not hamper imagination in any way, imagination must answer social needs," asserted professor Aurel Brăgaru pointed out.

"Do you call it a chance that you can practically make researches while still in faculty?" "Preparation for research should be started even before the faculty years," said Anoa Pescaru. "Curiously fades away as you get older. With us, students, creation is guided, targeted, but you must also be able to produce a good deal of nonsense. I feel tied down to all kinds of rules."

"Are we faced with a dilemma? You, professor Aurel Brăgaru, were speaking about mass-wide creativity as a universal method. What is the relation between this method and the students' scientific work-hopes?"

"I feel the need for lectures! workshops are for the elite. At the National Symposium of Inventives my papers focused on the concept called SUCCES (a system of collective usage of concentrated scientific experience). The application of this concept in practice, to my courses, helps me train the students' sense of specialization, thus granting them enough time in creative."



THE CURRENT FORMULAS OF EDUCATION

"An element of education for innovation, the dean went on, is the ready papers. We have the opportunity to pose problems to the students of which they should think and find original solutions, competitive in point of technology, choosing the best variant out of many possible ones. The solutions include, most often, elements of creation."

"The point is — said student Dănu Colociu — to study the phenomenon thoroughly in order to get a better knowledge of it."

"But, then, the training is narrow and it does not allow for research to be carried over large areas" (Anoa Pescaru).

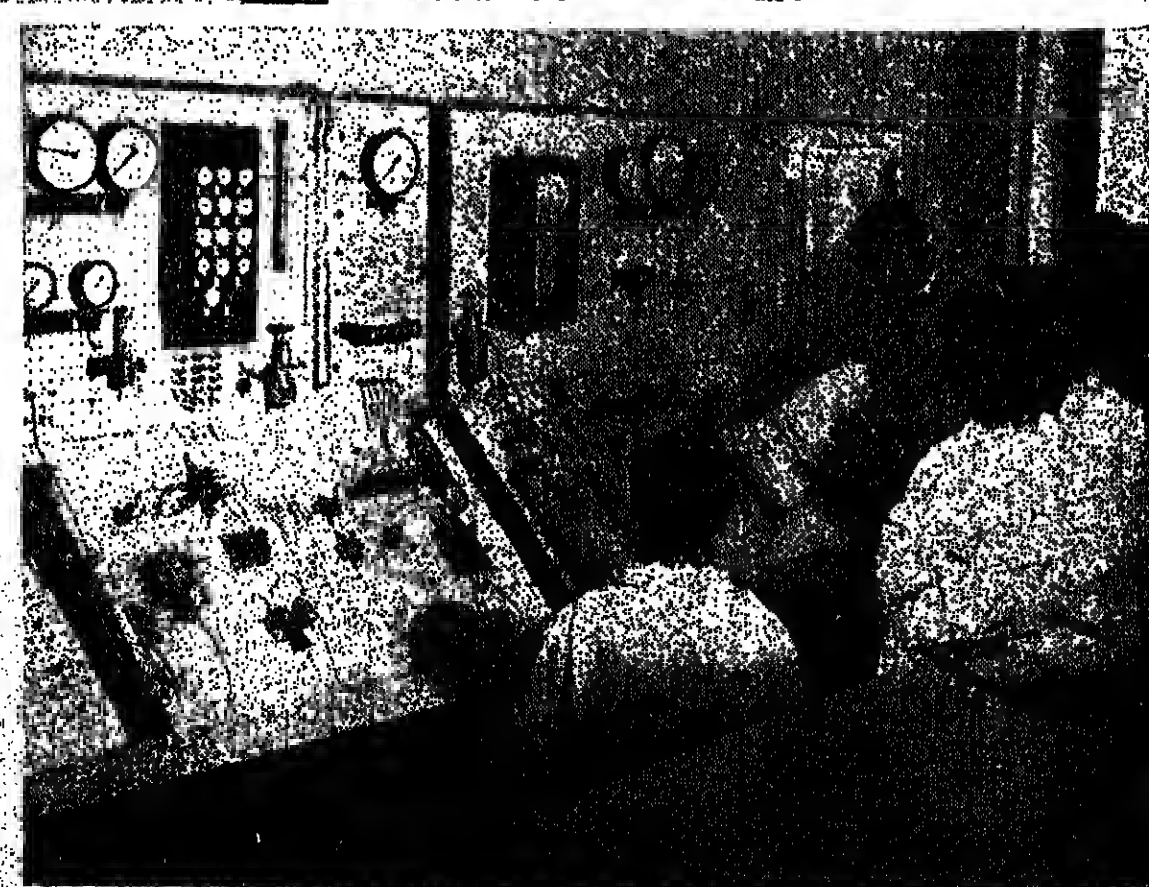
"Somebody said that, if we did not synthesize, we would go backwards. After three or four years of research, one must say: this is the question, you can push it as far as you like. In our faculty it is not us who choose, the questions, they choose the (Viorol Dumitrescu).

Then the diploma papers follow.

"In our faculty," the dean pointed out, "more than 50 percent of the questions proposed by diploma papers are research contracts. For 10-20 years, these diploma papers have been defended to the industrial area, before the customers (23 August Enterprise, the Travy Moebius Enterprise etc). This makes the student's attitude change. The rest of the theme are suggested by production, but they are not supervised by engineers and they are delivered at the faculty."

"Valuable experiences acquired at the machine building technology department, which organizes for fourth-year students lectures on various problems of scientific research for solving the tasks in this field by a planned activity."

"Have you noticed any results?" "Yes, we have," said professor Aurelian Viga. "For instance,



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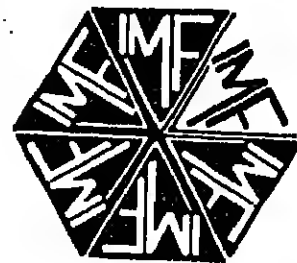
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THE FINE MECHANICS ENTERPRISE



The Fine Mechanics Enterprise of Bucharest, one of the big producers of measuring and gauging fixtures in Romania, offers high-accuracy devices for the measuring of external, internal, circular and flat dimensions, gear, surfaces and angles. Its manufacturing programme includes dial gauges and micrometer calipers with dial indicator, direct-reading and comparison measures

for bore-holes, posimeters and level micrometers, thickness measuring devices, gear pitch error and thickness measuring fixtures, protractors and supports and accessories for these devices. Length measuring devices meet world quality standards and can compete with similar products made by traditional firms.



ence dimension accuracy, economy of time, giving automatic orders according to the programme.

The vocation for top performances in the twelve enterprises of the CIMF is solidly grounded on the activity of its own Institute of research, design and technological engineering for fine mechanics and tools. A real centre of technical and technological creation, the Institute supplies ideas and solutions in productive departments staffed with high-skilled workers and technicians able to impart the highest quality to each product. The direct relationship between research and production, the continuous flow of information between those who design and those who execute provide the guarantee for the high technical level and accuracy of the measuring and control devices produced by the CIMF enterprises.

MEASURING AND CONTROL INSTRUMENTS

MEASURING AND DIMENSIONAL CONTROL INSTRUMENTS

- dial indicators
- bore checking and control instruments
- comparator instruments
- gear measuring instruments
- angle measuring instruments and apparatus
- surface measuring instruments
- supports and accessories for measuring instruments

APPARATUS FOR ACTIVE AND PASSIVE CONTROL BASED ON MODERN PRINCIPLES

- active control instruments for universal and surface grinding machines
- passive control instruments with electric contact and pneumatic transducers
- electronic apparatus for roughness control

The range of products includes 538 distinct families totalling some 22,000 standard sizes. Of these, 90 families of products have been assimilated of late, the share of the new and redesigned products being over 20 per cent.

In order to achieve its programme, the Fine Mechanics Enterprise adopted and improved the latest technologies specific to each family of products. One of the many possible examples are the diamond wheels with galvanic bond for processing a wide range of materials. Starting from the technology bought from the Winter company of West Germany, the Fine Mechanics Enterprise has achieved almost twice as many families of diamond wheels than the licence initially contained. Among its performances we could mention the wheels for the electroerosion industry used for cutting integrated circuits, transistors and thyristor plates. The width of the cut is only 0.25 mm, which substantially reduces the waste of expensive materials resulting from cutting. We could also mention the diamond wheels with galvanic bond used for cutting synthetic resins, the wheels for processing sintered metal carbides, etc.

The fruit of the Fine Mechanics Industrial Central's creative efforts is the active control devices used already on machine tools. Intelligent devices equipped with electronic blocks and sensors, they so-



REMEMBER THE IMF TRADEMARK

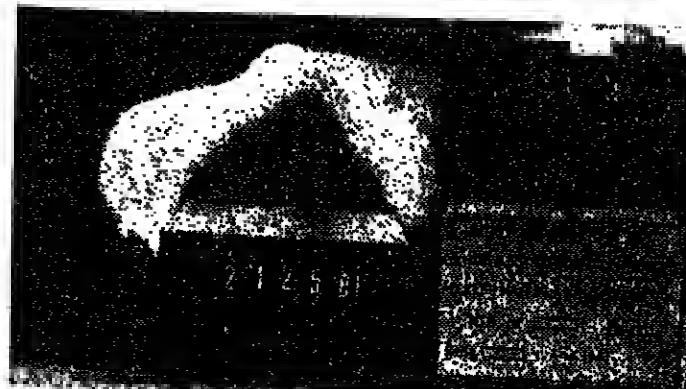
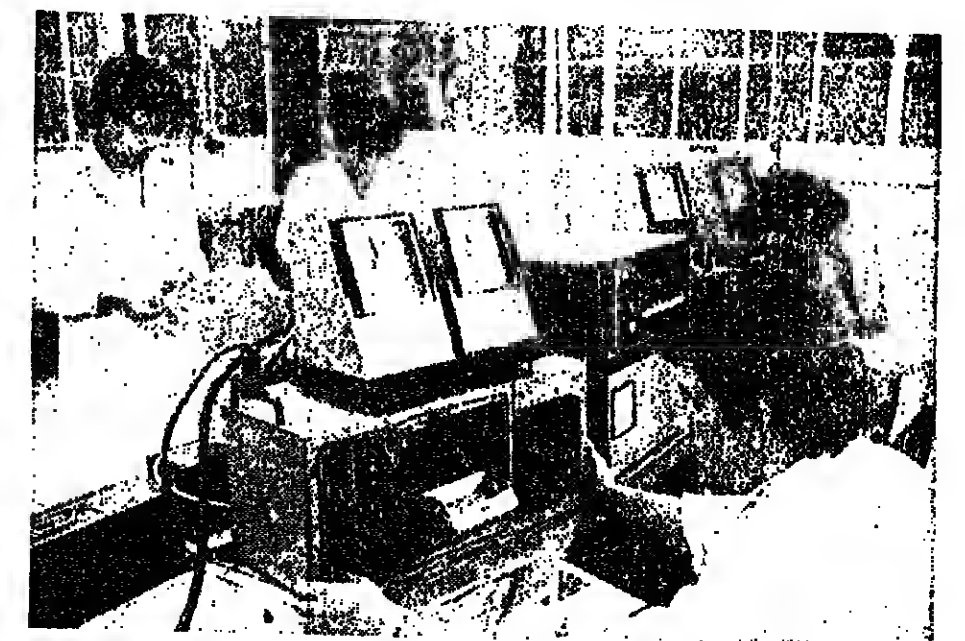
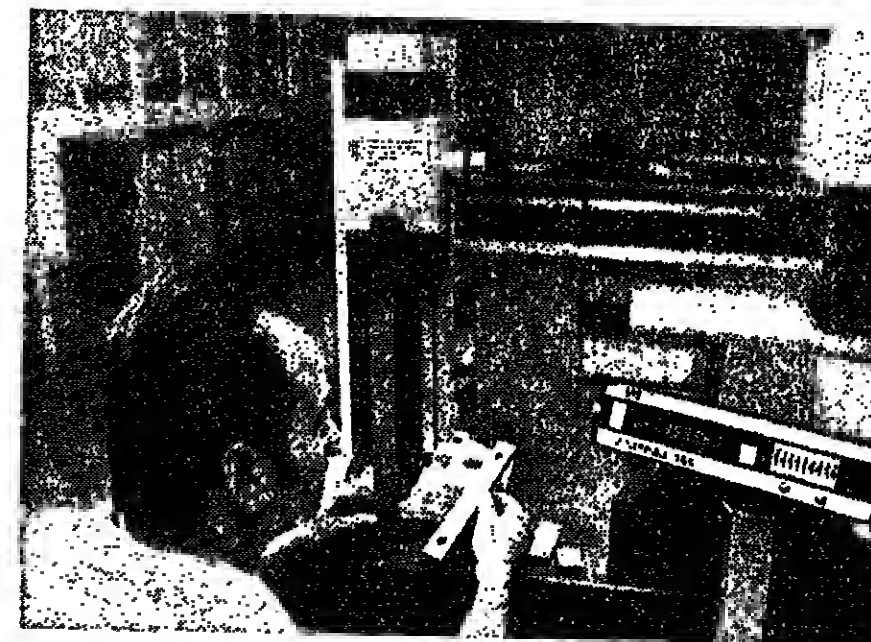


IMF is the mark you can see on all products turned out by Intreprinderea de Meccanica Fină (The Fine Mechanics Enterprise) in Bucharest. The fabrication programme of this enterprise which is one of the most modern in Europe includes the following groups of products:

• apparatus and mechanisms of industrial horology
• apparatus for the control of thermotechnical magnitudes
• automation elements for regulating pressure and temperature
• tools, devices and matrices
• products of sintered metal carbides.

Superior accuracy parameters, high technical standard and complexity, a wide range of applicability, endurance, highly efficient constructional elements - these are some of the features boasted by the dimensional control and measuring instruments and apparatus and of the tools bearing the IMF mark. Do not forget: they import superior functionality, maximum safety of operation, great productivity to your machinery and installations, and a high quality to your products.

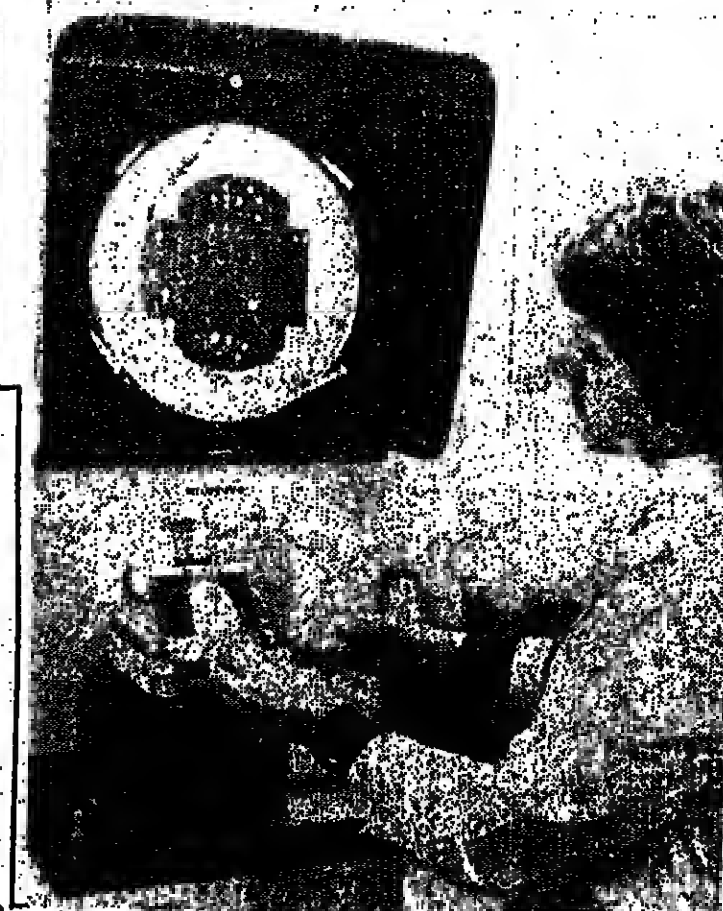
The tradition and vast experience amassed by the enterprise in its 30 years of existence, its contribution to making its partners' products profitable explain why the IMF products are in great demand in 35 countries on four continents among which Bulgaria, Czechoslovakia, Egypt, France, the GDR, People's China, West Germany, Liberia, the Netherlands, Poland, Spain, the USSR and the US.



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- diamond tools for processing grinding stones
- diamond wheels with metal and organic bonds for processing hard and extra-hard materials
- metal-bonded diamond tools for special processing
- diamond drawing dies
- diamond pastes



ON THIS PAGE:

- vertical micrometer with electronic counter
- electronic speedographs for locomotives
- impulse electronic counter for counting machines
- projector microscope checks

ON THE ADJOINING PAGE:

- View from the galvanic workshop of the diamond tools section
- View from the length measuring and control apparatus section



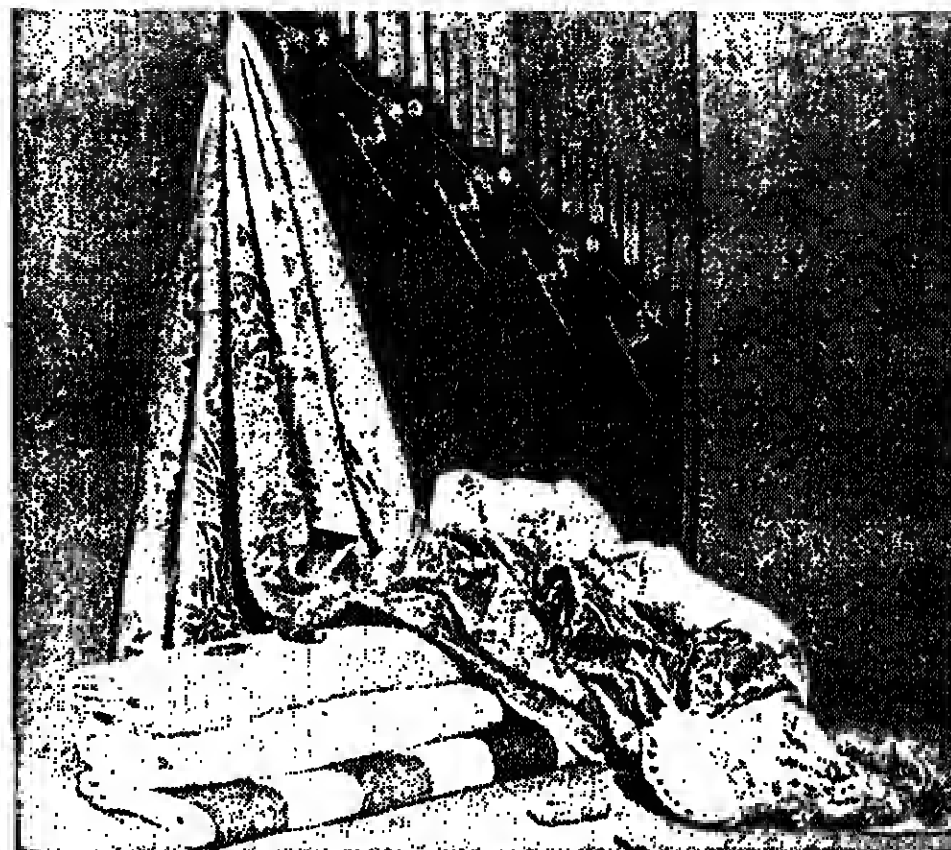
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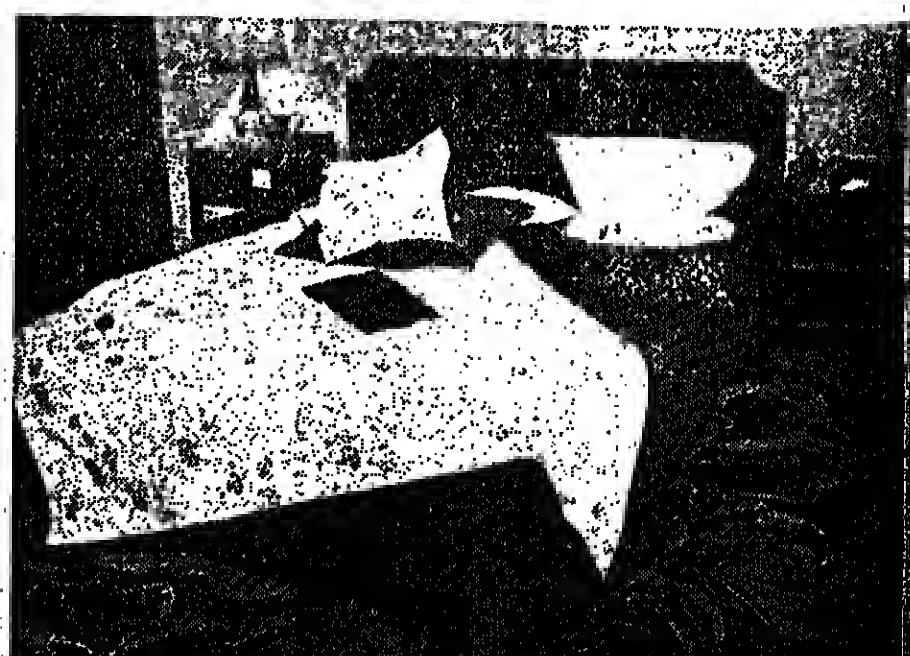
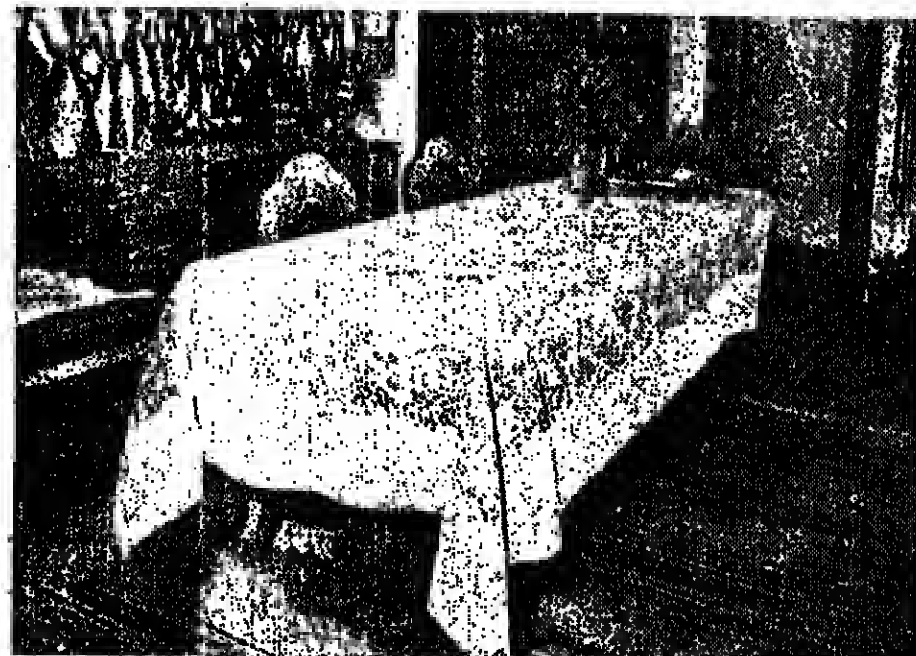


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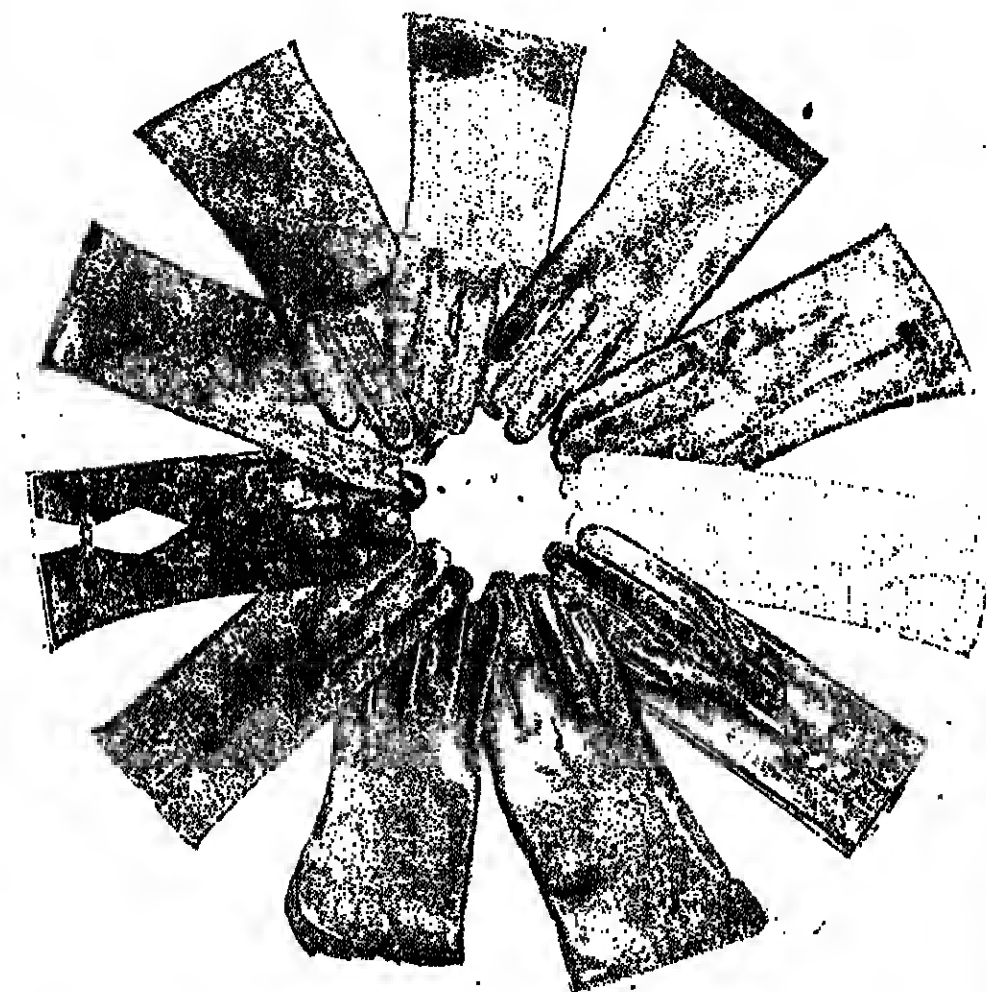
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DC motors with axial air gap and disk rotor, output: 180 w; 370 w; 750 w; 1,200 w; 1,500 w; 2,200 w; 4,000 w; 5,500 w

● Welding converters: CS 125 A, CSCA 250 A, CS 315 A,



CS 350 A, CS 3 (350 A), CS 5 (500 A)

● Welding sets with Diesel engine - GST 350 A, GST 500 A

● General sets powered by Diesel engines, stationary or mobile: 4 kva; 7.5 kva; 10 kva; 15 kva; 20 kva; 38 kva; 80 kva; 125 kva; 150 kva

● Synchronous generators: 231 and 400 v, 50-60 cycles, of: 5 kva; 6.2 kva; 7.5 kva; 15 kva; 30 kva; 38 kva; 40 kva; 50 kva; 80 kva; 125 kva; 150 kva

● Medium-frequency converter sets: GEF-AV, 50 kw, 8,000 Hz; GEF-AV, 56 kw, 8,000 Hz; GEF-AV, 100 kw, 8,000 Hz; GEF-AV, 110 kw, 8,000 Hz; GEF-AV, 125 kw, 2,500 Hz; GEF-AV, 300 kw, 2,500 Hz; GEF-AV, 300 kw, 8,000 Hz

● Distribution transformers: rated power: 25-1,600 kva, rated voltage: 6-35 kv

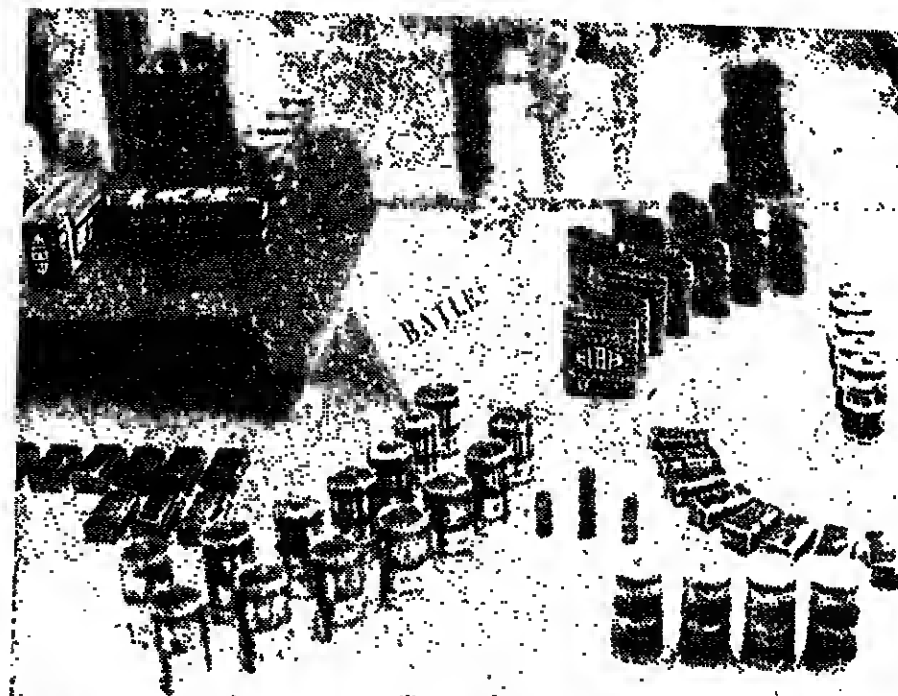
● Power transformers and autotransformers: rated power: 2,000-400,000 kva; rated voltage: up to 400 kv

● Medium and high-voltage

circuit breakers: a) small oil volume, type IUP, rated voltage: 6-35 kv and 110 kv; symmetrical breaking capacity: 250-3,000 Mva; b) small oil volume, type IO (Della Alstom-France licence); rated voltage: 6-20 kv; symmetrical breaking capacity: 250-500 Mva; c) ditto for the rated voltage of 66, 110, 220 and 400 kv; d) air contactor type CAM, 6 kw, 100 A

● Disconnecting switches: a) indoor use (SMI-STI); rated voltage up to 35 kv; rated current up to 6,300 A; b) outdoor use (SME-STE-STEP); rated voltage up to 400 kv; rated current up to 1,600 A; c) indoor load break switches, type STIS; rated voltage up to 20 kv; breaking capacity up to 7 Mva; d) pantograph type PHAF-1-110/2000

● Instrument transformers: a) current transformers: 1. plastic insulation (types CIS, CIP); 2. synthetic resins (type CIR); rated voltage up to 35 kv, for indoor use; 3. ditto, types CIR, CIRto, CIRTI; 4. oil type (CESU and CESI); rated voltage up to 400 kv, for outdoor use; b) voltage transformers: 1. synthetic resins (type TIRMO, TIRBO); rated voltage up to 35 kv single



or double phase build for indoor or outdoor use; 2. oil types (TEMU-TEBU and TECU) rated voltage up to 400 kv single or double-phase build for outdoor use

● Medium-voltage fuses: rated voltage up to 35 kv; rated current up to 100 A; indoor use (type FI); outdoor use (type FE)

● Prefab cells for indoor use for transformer stations up to 20 kv

● Indoor lighting fittings for fluorescent lamps

● Street lighting fittings for mercury lamps

● Lighting fittings for motor vehicles

● Lanterns

● Accumulators

● Electric hand tools

● Electric refrigerators with compressor

● Electric home appliances: washing machines, oil radiators, electric hot plates, flat irons, vacuum cleaners, hair driers, electric callers, grinders, turbine radiators, window fans, table fans, attachments set for MG4 drilling machines, other electric heating appliances, household electric pumps

● Electromagnetic materials: textolit; sticlotextolit a.a.

● Electric cables and conductors: Aluminium conductors for overhead lines; Steel-core aluminium conductors; Rubber-insulated-sheathed flexible cables, type NLH, NMH, NSH; Copper and aluminium PVC insulated conductors according to DIN-85-NF-VDE; Telephona cables; Signalling cables; Copper and aluminium power cables, armoured and non-armoured, of 1.6 and 10 kv; Insula-



● Reactance coils, type BR

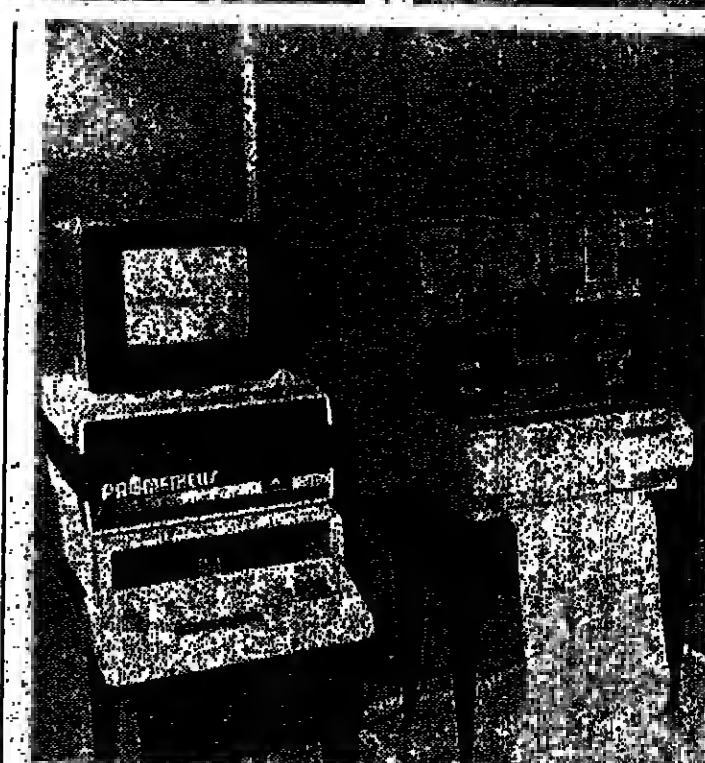
● Winding machines for transformer coils

● Power capacitors: a) mineral oil (type CU); rated voltage: 0.380-0.500 kv; rated power: 10-15 kva; three phase build indoor mounting; b) chlorinated oil, type CS; rated voltage: 0.380-0.500 kv; rated power: 15-20 kva; three-phase build; indoor mounting

● Low-voltage gear for industrial purposes and housing installations (contactors, relays, circuit breakers, push buttons, thermal fuses, transformers, high rupture capacity low-voltage fuses, switches, sockets etc.)

● Lifts

● Dry cells and electric batteries

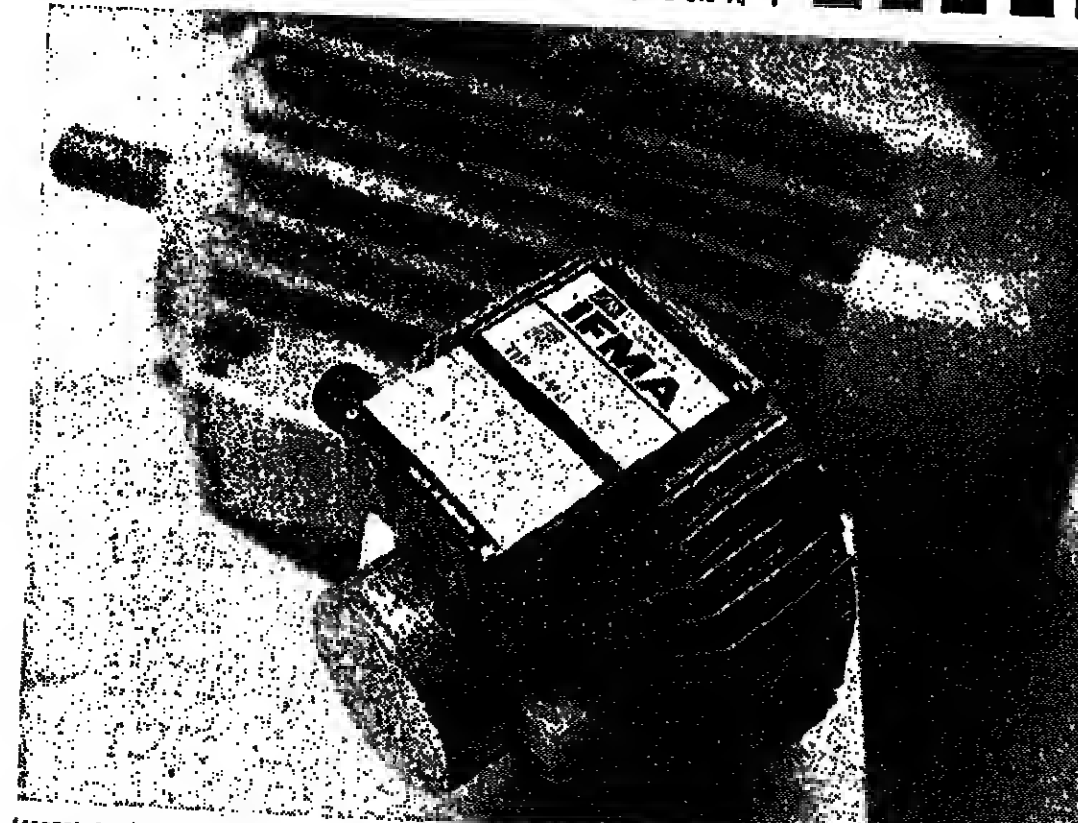


tion: PVC polyethylene or paper (mass-impregnated and mass-impregnated-non-draining)

● Equipment for electrotechnical industry manufactured in one piece or small series

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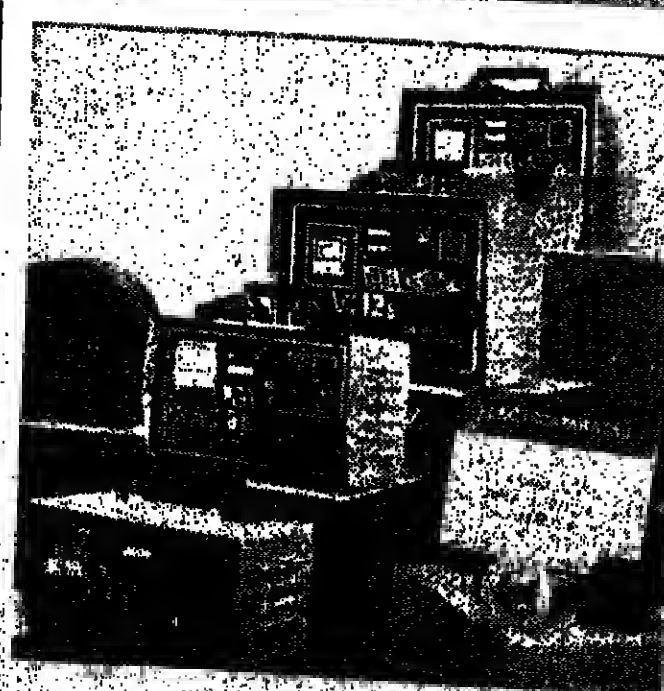


(40050) for operation in explosive ambience

● Three-phase asynchronous motors of large output: output: 110-1,000 kw; frequency: 50-60 cycles; squirrel cage rotor; low voltage 220-660 v - MIB & MAB; high voltage 3.3-6 kv - MIB & MAB; MIB & MAB; wound rotor; low voltage: 220-660 v - MIP & MIP; high voltage: 3.3-6 kv - MIP, MAP, MIP & MIP; mounting arrangement: B3 (DIN 42673) and B5 (DIN 42677); protection: IP23 or IP44 (DIN 40050)

● TAM three-phase asynchronous motors: output: 0.25-7.5 kw; voltage: 220-500 v; frequency: 50-60 cycles; squirrel cage rotor; mounting arrangement: B3 (DIN 42673), B5 (DIN 42677) and B14 aluminium casting

● Single-phase electric fractional horse power motors for washing machines, 2/12 poles, 2/16 poles, refrigerators, sewing





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LIFE GERMINATED BY INTELLIGENCE

The more than 500 students who are members of the 88 original research orders within the Faculty of Agriculture of the East Agronomic Institute permanently produce new and valuable ideas. In order to help life yield fruit, one must work passionately and love the land, the plants and animals. Those who love the land have found new methods to improve quality and alkaline soils, and those with excess humidity in the meadows of the rivers in the region, reclaiming them for agriculture. Those who love animals, the future veterinarians, have studied and devised new means of prophylaxis and fighting animal diseases by eradicating germs and vaccines which are already used in the productive sector of the major animal breeding complexes in this country.

When you step into the office of professor engineer Constantin Miloi, DSc, you feel as if you cannot breathe without the large paper bags full of small, carefully labelled ones. In a pharmacy or a perfumer's

shop (a plausible hypothesis when you look at the scores of bottles containing amber-coloured essences), or in a place where spices are stored, whose smell has impregnated even the walls, the furniture and the books. Thanks to the endeavours and passion of the professor, assisted by the scores of students, a genetic bank for medicinal and aromatic herbs has been set up. The bank is an accumulation of a genetic stock totalling 800 species from the spontaneous and cultivated flora existing in 12 countries of Europe, Asia and America. This gene bank was systematized (a keeping with the collection of olivine, bearing species for cardiovascular, ulcerous, hepatobiliary, respiratory, kidney, rheumatic n.e. diseases).

The faculty has not made up its mind for purely teaching purposes alone. It has been needed to advance through the students' practical work. The beneficiaries are the local Medical-Horticultural Institute, the Antibiotic Enterprise, the county pharmaceutical office, the Plantation Enterprise in Piatra Neamt, which receive from the faculty's laboratory either whole or seasoned plant material, excellent sources of raw materials for drugs. Alongside medicinal herbs, aromatic ones are used for original spices.

Another valuable idea of the East Agronomic Institute is the exploitation of this biological stock for the replacement of chemical synthesis performed with natural plant extracts. For the time being, the great economic enterprises Miral and Farmco have received samples for the development of this sector.

Many of those who climb the Copca Hill where the Agronomic Institute lies come here for business. They have to sign urgent contracts, or they want to find out what the Institute's gene bank can offer them.



CHILDREN ARCHAEOLOGISTS

On a plateau on the right bank of the river Ol, near Sereul village, Sibiu county, were effected archaeological researches in the works, coordinated by prof. dr. Doina Galbeniu, from the History Museum of the Socialist Republic of Romania in Bucharest, also participated students of the Sereul School, members of the local history circle. On that occasion were discovered tools, stone hammers, and many ceramic objects. Two settlements were attested from the transition period at the end of the Neolithic and the beginning of the Bronze Age belonging to the late Coloteni culture and Cins-Selenkenberg culture, both dated to the second half of the third millennium BC. The objects discovered by the little archaeologists who worked with passion, care and skill were included in the school's museum.

THE FUTURE IS VERY NEAR

Starting this summer, after taking his diploma, he will recommend himself as architect Mihail Badoe. For the time being however he is a final-year student of the Ion Mincu Architectural Institute in Bucharest. How did he come this far?

"In the beginning, there was my wish to become an architect, promoted by impressions not entirely related to this profession. I met an architect who used to work with valuing passion. Besides, there was my old bias for drawing, just like

the passion for mathematics. I graduated from high school and was admitted to the faculty.

"The I realized that a tremendous distance separated what I thought architecture to be and what it really was. In the first years, I concerned myself with the ABC of the functional and aesthetic aspects in this profession. Starting in the fourth year I tried to become a disobedient apprentice, so that I may reach my own way of thinking and put my ideas into a personal expression. So, I started to discover.

Besides the subjects studied at the faculty, I tried to keep abreast of the novelties taking place in architecture. I am referring to the workshop activity, where the field of research

is more fertile, being related to preoccupation.

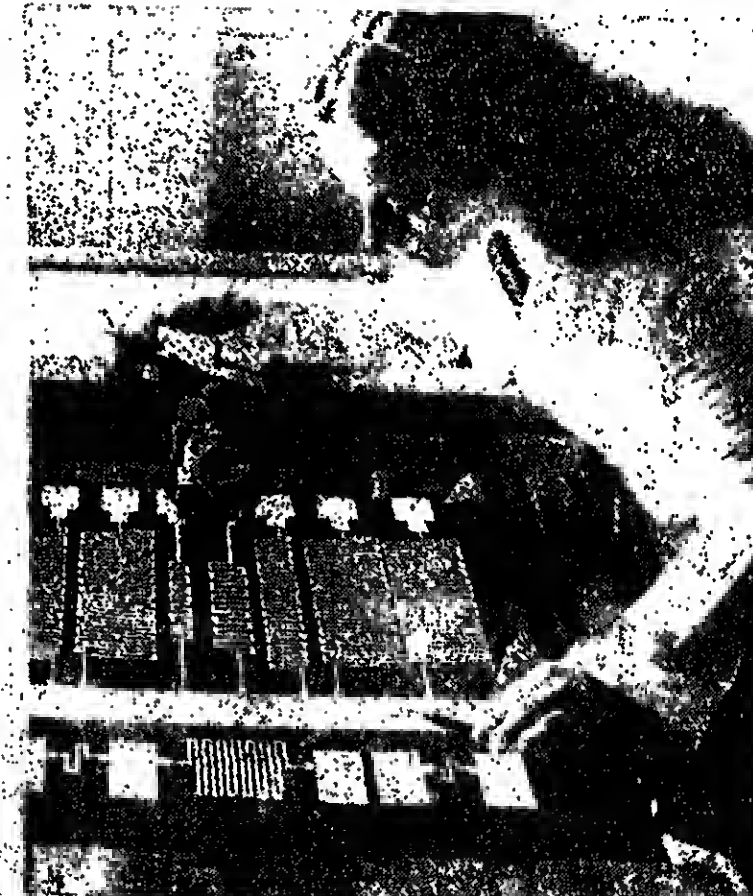
"I am part of a design team including both students and professors which takes over contracts to be finalized. Here, several designs of houses of culture for youth were worked out under the supervision of professor Emil Burbu Popescu. One of these houses of culture is that of Giurgiu. After the foundation works started it was discovered that the phreatic water layer was higher than noted in the geological survey. Then we had to rethink the solution, redesign the interior, without however sacrificing the functional details required by the beneficiary. In the end it all came out right.

"But maybe my personality was more clearly expressed in the study designs worked out by me alone. I designed a 400-bed hotel for Giurgiu. And also for this town, another design pursues the improvement of the degree of comfort in multi-family housing units. We reduced the circulation areas in favour of living rooms, because I support the idea of expanding social contacts, starting with the family.

"Two years ago, I was a member of the group which took part in the contest for designing the National Theatre in Tokyo. The design was sent to Japan, entered the contest and was reproduced in the catalogue made by the organizers. It included an opera hall, a studio, lobbies, rehearsal rooms, technical rooms, parking lots, etc. We had to heed the Japanese aesthetic, without however overdoing it.

"Now I am working on a town planning design for a part of Bucharest, in the perspective of the year 2000. I think I have already started to feel the pulse of the future, and I am sure that I will be able to give the required shape to the future."

Text written by
CONSTANTIN LUCU



A TIGHT LINK WITH PRODUCTION

Last year, the Mechanical Faculty signed 18 research contracts with the enterprises in the municipality with subjects as: the making of noise alloy discs (with higher resistance and good response to erosion) for the casing of ship propellers; the automation of control systems for the plastic injection installations; designs for two automated forging installations for container dressings and pillars. The value of these contracts nears two million lei.

Some other research themes have been completed by students in their diploma papers, which have in view important scientific approaches in the domain of ship structures, the automation of some components, metallurgical technologies.

The East Construction Faculty (top); workshops and laboratories of a few technical faculties in this country (top) and center; laboratory of the Faculty of Zoology and Veterinary Medicine in Timisoara (top right); a picture taken at the Bucharest Institute of Architecture (bottom right).



FROM "THE HIGH SCHOOL PUPILS" SERIES

Continuing the "high school pupils" series, this third episode — *Extremism in the Village* — directed by Nicolae Corjuc, offers a new encounter with the main characters in this film. The director's message is clear: the young people of the village, the pupils of the high school, are not just passive recipients of the adult world, but active participants in the social and cultural life of their community. The film shows how the pupils, through their actions and decisions, shape the future of their village. The director's message is clear: the young people of the village, the pupils of the high school, are not just passive recipients of the adult world, but active participants in the social and cultural life of their community.

PREMIERE

The National Theatre in Bucharest has presented the first premiere of the year of the National Theatre. The play, *The House of the Dead*, by Luigi Pirandello, directed by Mihail Mădăraș, is a masterpiece of modern drama. The play explores the themes of identity, reality, and the human condition. The director's message is clear: the young people of the village, the pupils of the high school, are not just passive recipients of the adult world, but active participants in the social and cultural life of their community.



THE SPIRIT OF TRADITION

Painter Aurel Anel has painted a series of paintings and black-and-white works at the Orizont Gallery in Bucharest. The works are a testament to the spirit of tradition, capturing the essence of Romanian culture and heritage. The director's message is clear: the young people of the village, the pupils of the high school, are not just passive recipients of the adult world, but active participants in the social and cultural life of their community.

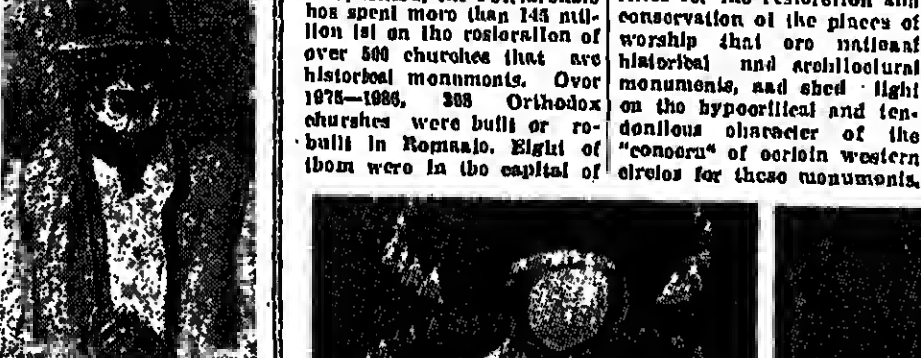
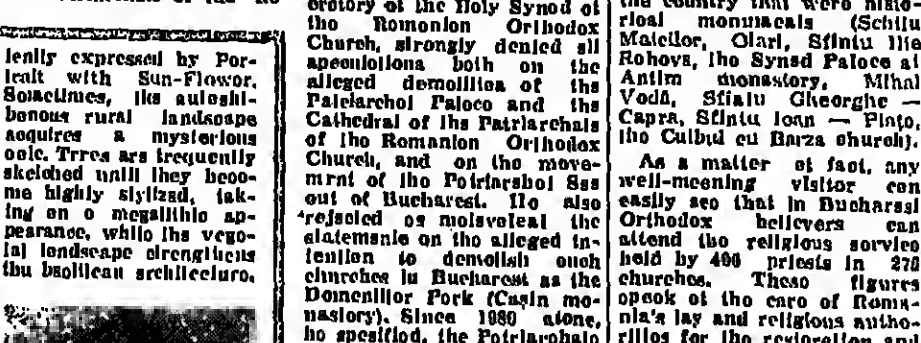
ROMANTIC CHARM

The Flare from the Moon by Eduard Kifor is a romantic play that explores the themes of love, passion, and the human condition. The play is a masterpiece of modern drama, capturing the essence of Romanian culture and heritage. The director's message is clear: the young people of the village, the pupils of the high school, are not just passive recipients of the adult world, but active participants in the social and cultural life of their community.



CONSERVATION AND RESTORATION

For some time now, the Romanian Orthodox Church has been engaged in a major conservation and restoration project. The project involves the repair and restoration of many of the church's most important buildings, including the Patriarchal Palace and the Holy Synod. The director's message is clear: the young people of the village, the pupils of the high school, are not just passive recipients of the adult world, but active participants in the social and cultural life of their community.



PREPRINTS

Professors of the University of Medicine and Pharmacy in Bucharest have published a series of preprints. The preprints are a collection of essays and articles on various topics, including medicine, science, and culture. The director's message is clear: the young people of the village, the pupils of the high school, are not just passive recipients of the adult world, but active participants in the social and cultural life of their community.

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BUCHAREST — A PORT ON THE DANUBE

The builders of the Enterprise for the Complex Development and Exploitation of the Danube River have started work on the making and development of the future commercial port of Bucharest. The project is a major undertaking, involving the construction of a large port facility on the Danube River. The director's message is clear: the young people of the village, the pupils of the high school, are not just passive recipients of the adult world, but active participants in the social and cultural life of their community.

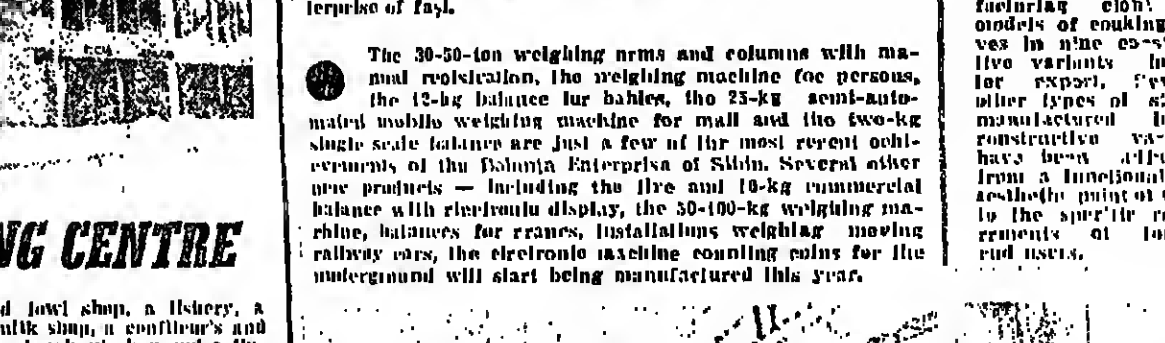
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INDUSTRIAL FIRSTS

After testing the beneficiaries' preferences, the Garments Enterprise of Iasi has prepared for future production over 1,000 new models of clothing items. The enterprise is a major undertaking, involving the construction of a large port facility on the Danube River. The director's message is clear: the young people of the village, the pupils of the high school, are not just passive recipients of the adult world, but active participants in the social and cultural life of their community.

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NEW PRODUCTS

This year, the 23 August Enterprise has prepared for future production over 1,000 new models of clothing items. The enterprise is a major undertaking, involving the construction of a large port facility on the Danube River. The director's message is clear: the young people of the village, the pupils of the high school, are not just passive recipients of the adult world, but active participants in the social and cultural life of their community.

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THE SALT AND PEPPER OF INDUSTRY

The researchers of the Research Institute for Organic Auxiliary Products in Mading are working on the development of new products. The institute is a major undertaking, involving the construction of a large port facility on the Danube River. The director's message is clear: the young people of the village, the pupils of the high school, are not just passive recipients of the adult world, but active participants in the social and cultural life of their community.

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HIGHLY EFFICIENT TECHNOLOGY

The Enterprise of Automation Elements in Bucharest has started manufacturing the second generation of telemechanical equipment. The enterprise is a major undertaking, involving the construction of a large port facility on the Danube River. The director's message is clear: the young people of the village, the pupils of the high school, are not just passive recipients of the adult world, but active participants in the social and cultural life of their community.

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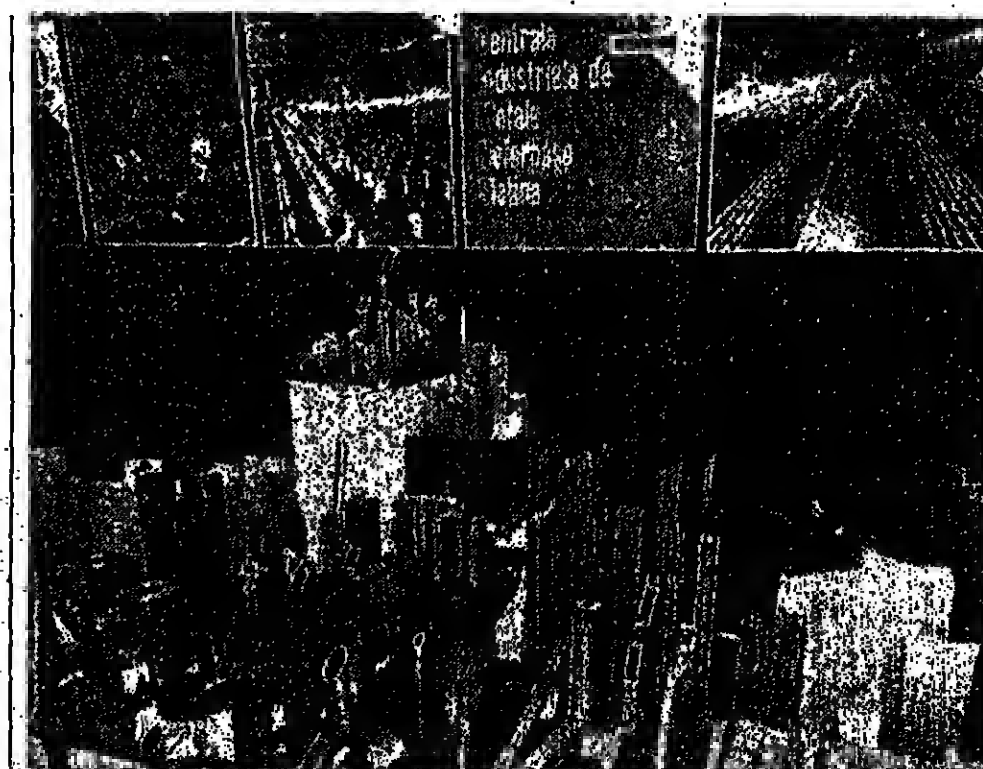


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